

INFRASTRUCTURE WORKSHOP

March 7, 2013



"above, below, and all around you"

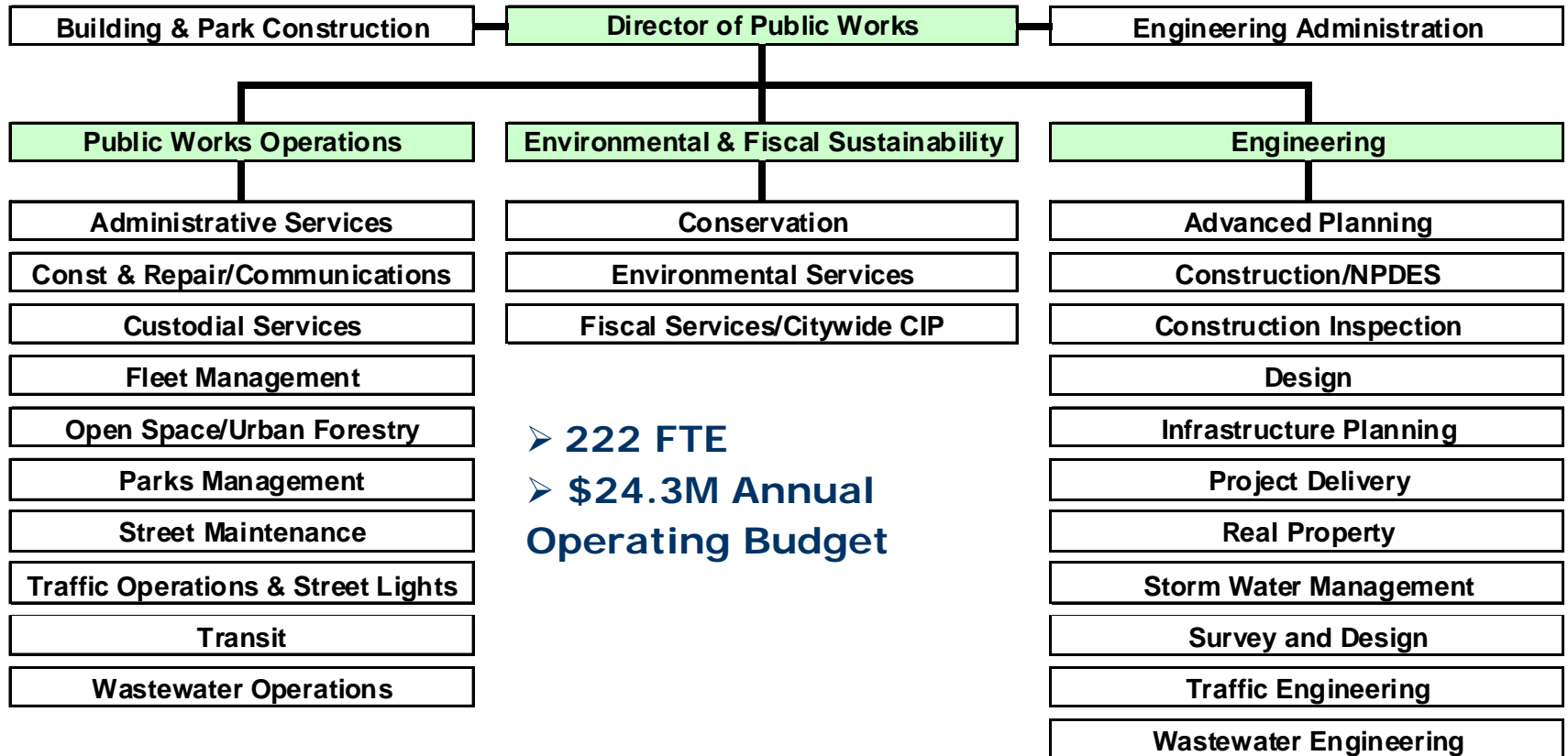


MISSION STATEMENT



The Public Works Department's mission is to provide and manage the City's infrastructure, parks and open space through high quality operations, maintenance and construction in order to optimize mobility, public and environmental health and safety.

PUBLIC WORKS DEPARTMENT





Citywide Strategies

Operational Excellence

Fiscal Health

Continuously Improve

Positive Experience

Economic Vitality

Strong Vibrant City

Prosperous Environment

Healthy Community

Environment Fosters Health & Wellness

Restore & Protect Natural Resources

Assets & Facilities

Strong & Secure Neighborhoods

Public Infrastructure Maintenance

Crime Prevention & Emergency Prep

Response & Recovery

Connected Community

Civic Engagement

Enrichment programming

Goal

Strategies

Initiatives

Healthy Community

Environment Fosters
Health & Wellness

Restore & Protect
Natural Resources

Assets & Facilities

Healthy Community
Policies and
Programs

Environmental/
Conservation

Climate Action Plan

Neighborhood
Facilities

Asset Mgmt
Program



Goal

Strategies

Initiatives

Strong & Secure
Neighborhoods

Public Infrastructure
Maintenance

Crime Prevention &
Emergency Prep

Response &
Recovery

Asset Mgmt
Program

Plan Review &
Inspection

Emergency Mgmt
Program

Analysis Led Policing

Perception of Safety

Education &
Engagement

Advanced Life
Support

Police Public Safety



Goal 3: Healthy Community

Strategy 3.3.
Provide parks,
open spaces,
outdoor
experiences,
libraries and
recreational
opportunities
that residents can
enjoy

- Initiative 3.3.1. Plan, construct, maintain and operate community and neighborhood facilities
- Initiative 3.3.2. Preserve and restore parks and open space systems through the Asset Management Program (AMP)



Goal 4: Strong and Secure Neighborhoods

Strategy 4.1.
Ensure a sustainable and well maintained infrastructure to provide safe and appealing communities to live, work and play

- Initiative 4.1.1. Preserve and restore City Infrastructure (such as roadway, wastewater, and drainage systems) through the Asset Management Program (AMP)
- Initiative 4.1.2. Provide comprehensive plan review and inspection services to ensure safety and code compliance



CHULA VISTA'S PUBLIC ASSETS

- Approximately 460 center line miles of paved public streets
- Over 1,000 miles of sidewalks and trails and paths
- Over 500 miles of sewer pipes
- 268 traffic signals
- Over 9,000 street lights
- Over 27,000 street trees
- Over 500 acres of park land
- Over 2,000 acres of open space
- Over 4.2 Million LF of curb and gutters
- 249 miles of storm drains
- Over 550 kW of Solar Photovoltaic systems
- Athletic Fields, Bridges, Civic Center, Drainage Channels, Equipment Inventory, Fire Stations, Fences, Golf Course, Guardrails, Jails, Libraries, Museum, Nature Center, Pipelines, Police Headquarters, Pools, Public Works Center, Recreation Centers, Retaining Walls, Rohr Manor, Visitor Information Center, South Bay Regional Household Hazardous Drop-off Facility, Street Signs, Vehicle Fleet...





Asset Management

Managing assets to minimize the life cycle cost of ownership while delivering the service level at an acceptable level of risk

Optimized Stewardship

Asset Management is about...

- Moving from **reactive** to **proactive** through managed solutions
- ◆ Working together towards a common goal of:
 - Maximizing asset useful life
 - Reducing risk
 - Minimize lifecycle cost
 - Optimizing O&M and asset replacement activities
 - Project validation (e.g., business case evaluation)
 - Understanding long-range capital investment needs
- ◆ Creating justification and documentation
- Making the **right decision**, at the **right time**, for the **right reason**, at the **right cost**

Goal of Asset Management

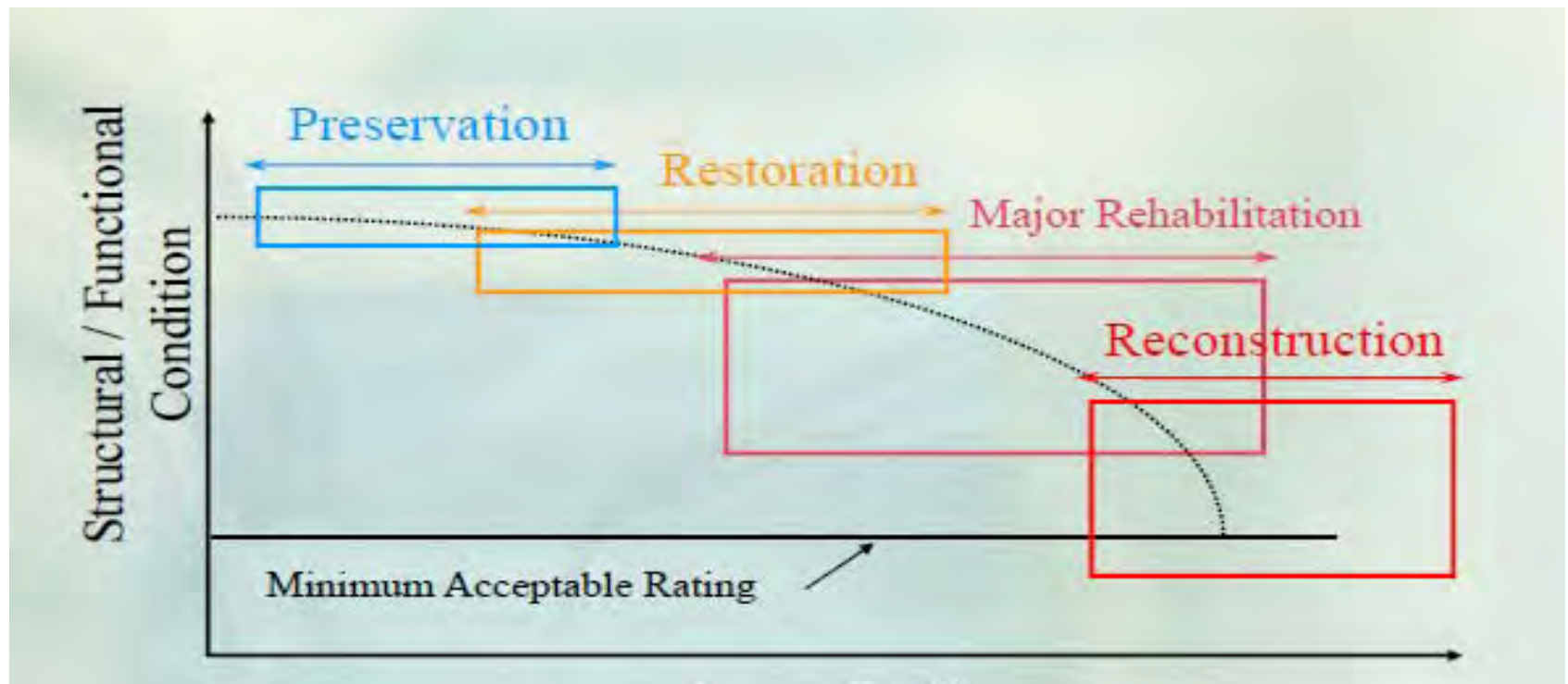




Five Core Questions of Asset Management

- ◆ US EPA Asset Management Framework
- 1. What is the current state of my assets?
- 2. What is my required level of service?
- 3. Which assets are critical to sustained performance?
- 4. What are my best O&M and CIP investment strategies?
- 5. What is my best long-term funding strategy?

ASSET MANAGEMENT PERFORMANCE CURVE



ASSET MANAGEMENT PROGRAM (AMP)

2012	→	2013		
GREEN		GREEN	Wastewater Management System	WMS
YELLOW		YELLOW	Parks Management System	PMS
YELLOW		YELLOW	General Government Management System	GGMS
YELLOW		RED	Building Management System	BMS
YELLOW		RED	Fleet Management System	FMS
RED		RED	Drainage Management System	DMS
RED		RED	Roadway Management System	RMS
YELLOW OSMS	→ New	GREEN	Open Space Management System	OSMS
		RED	Urban Forestry Management System	UFMS

...9 Asset Management Systems for 100 years of investments



BASELINE ASSET MANAGEMENT CONDITION ASSESSMENTS



- ◆ Completed
 - Wastewater (pipes and pump stations)
 - Roadway (pavement only)
- ◆ In Process
 - Open Space
 - Wastewater (manholes)
- ◆ Pending Funding
 - Buildings, Drainage, Fleet, General Government, Parks, Roadway (sidewalks, curb & gutter, etc.), Urban Forestry

WASTEWATER MANAGEMENT SYSTEM (WMS)

- 500 Miles of Sewer
- 12,000 Manholes
- 12 Pump Stations
- 8 Wastewater Basins
- Approximate flow 16 Million Gallons per Day (MGD)
- Current treatment capacity is 21 Million Gallons per Day

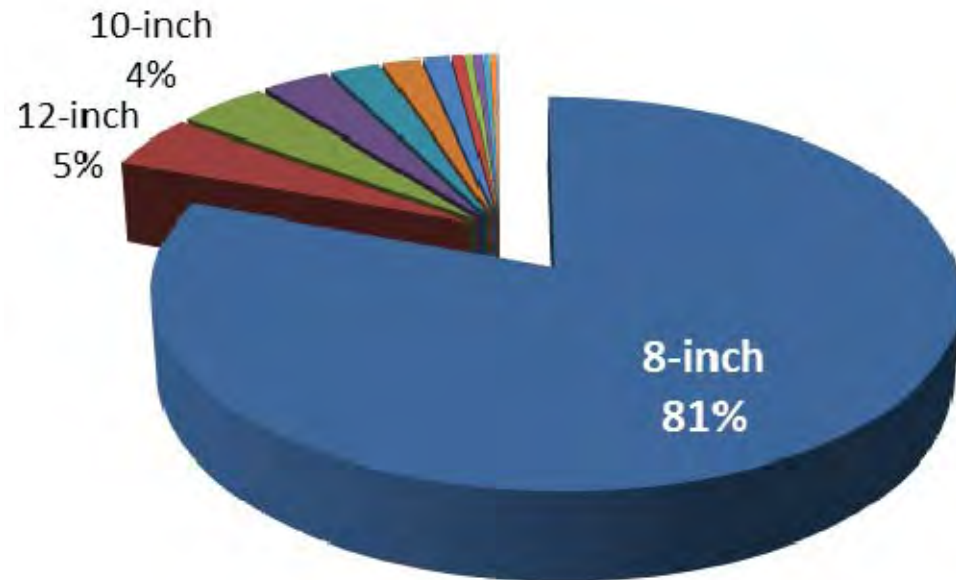
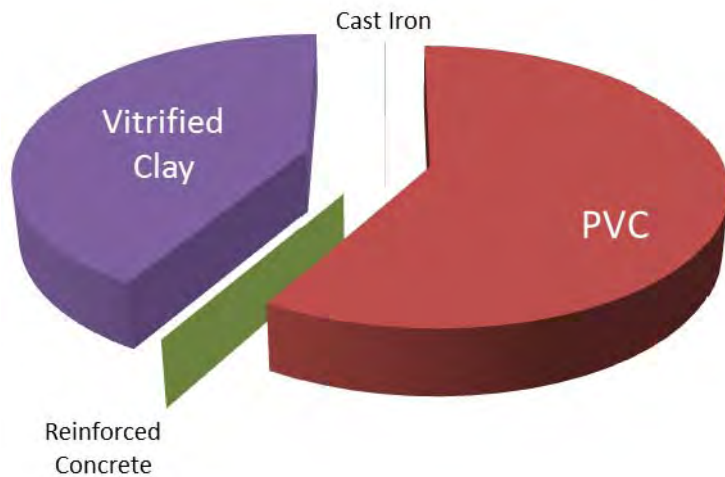




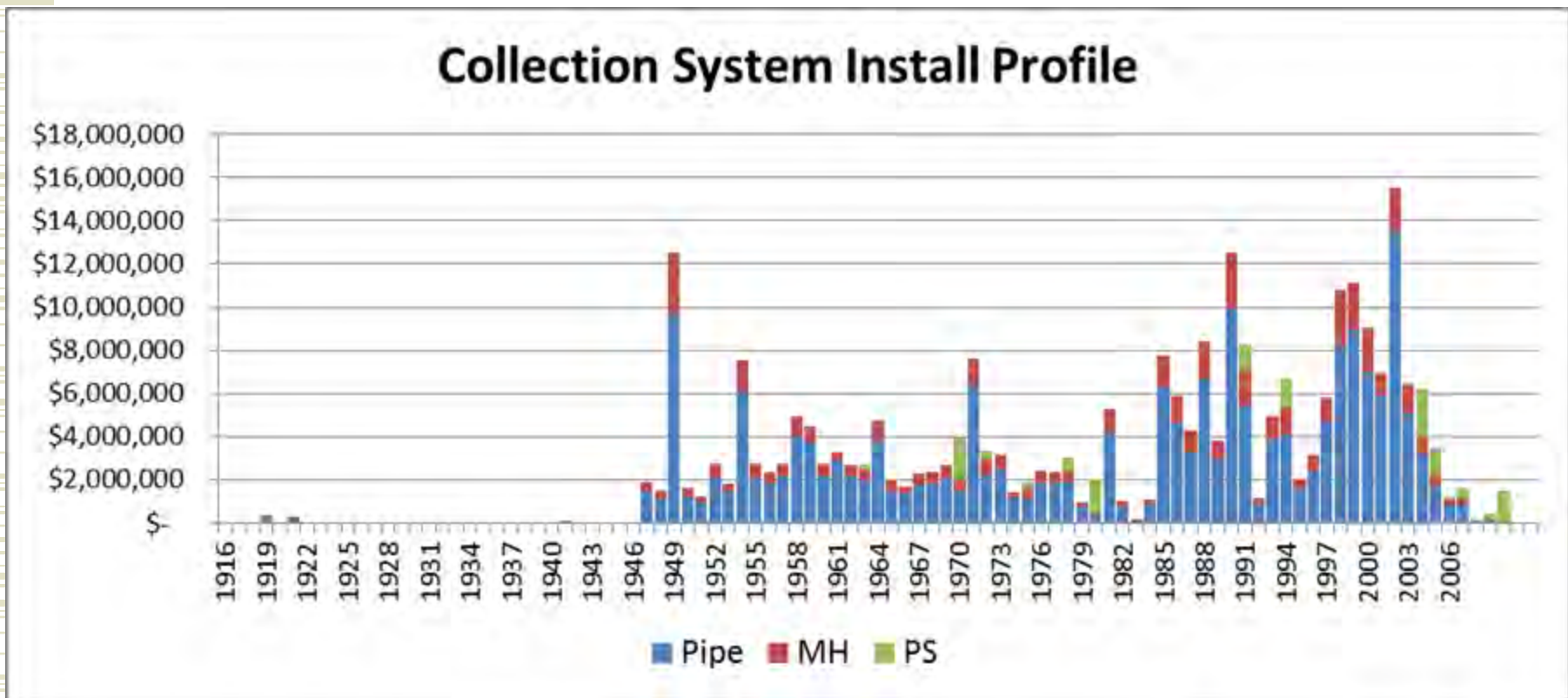
What Do I Own and Manage?

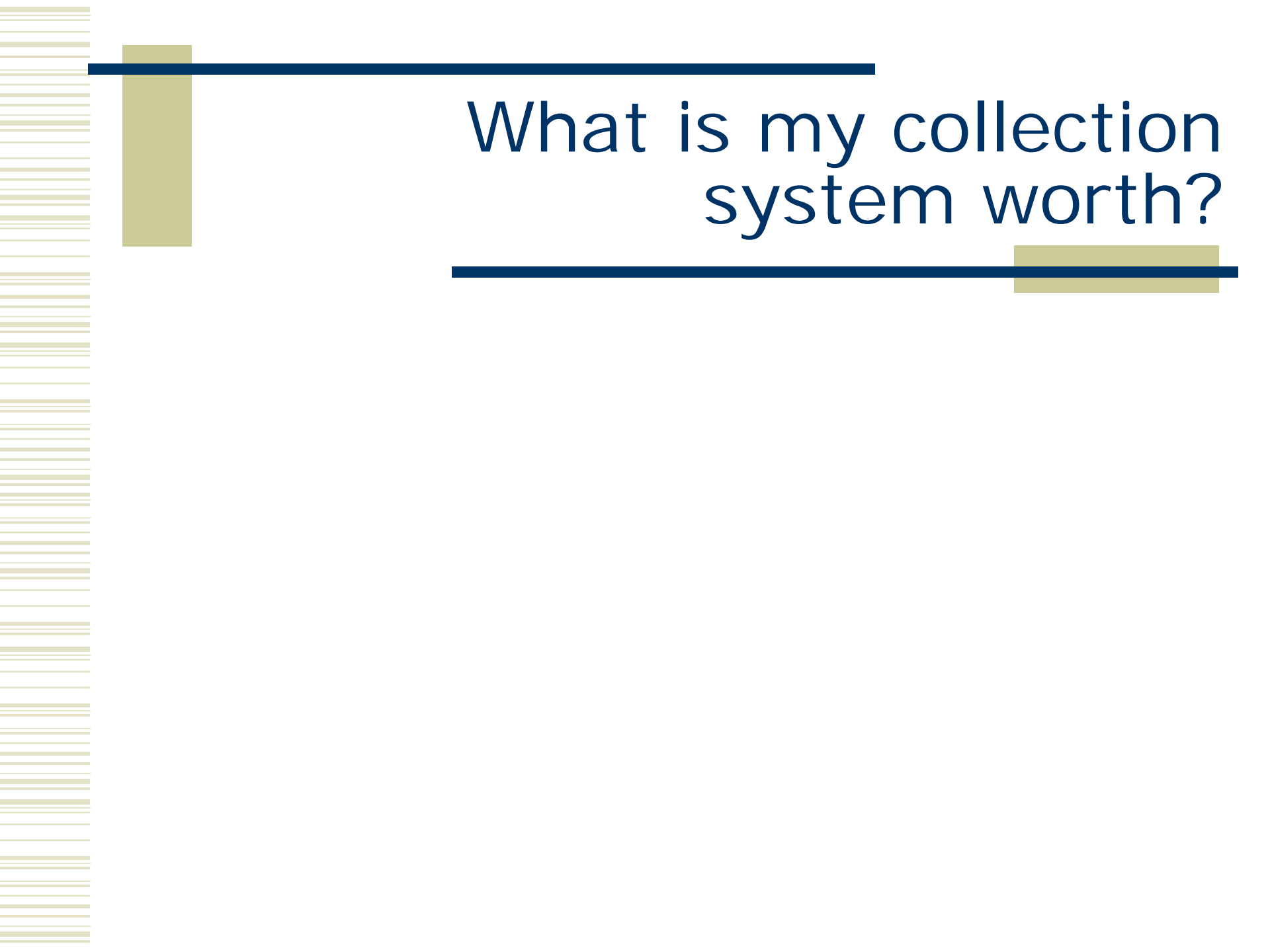


Collection Pipe Summary



Collection Pipe Installation Profile

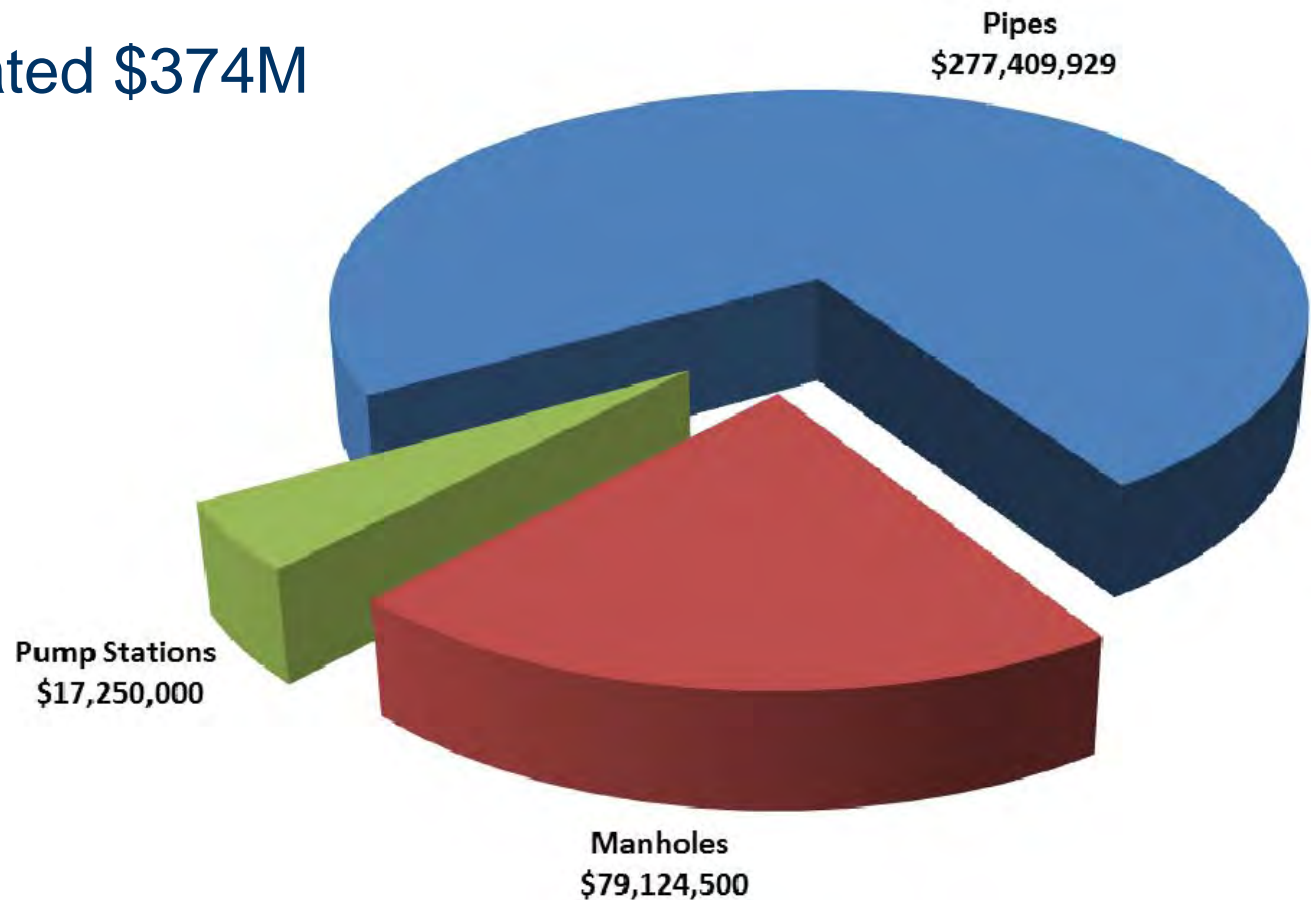




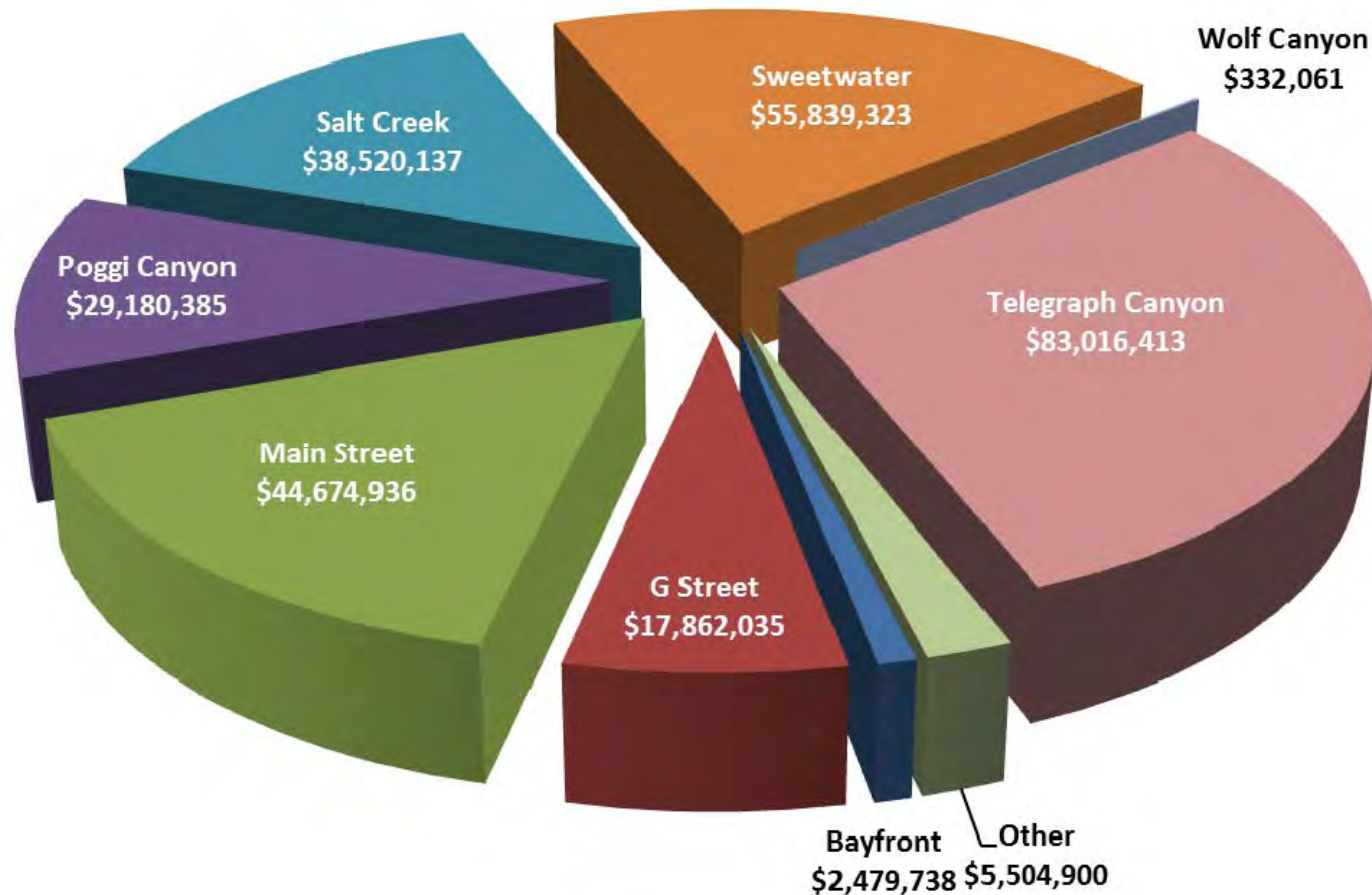
What is my collection
system worth?

Collection System Valuation

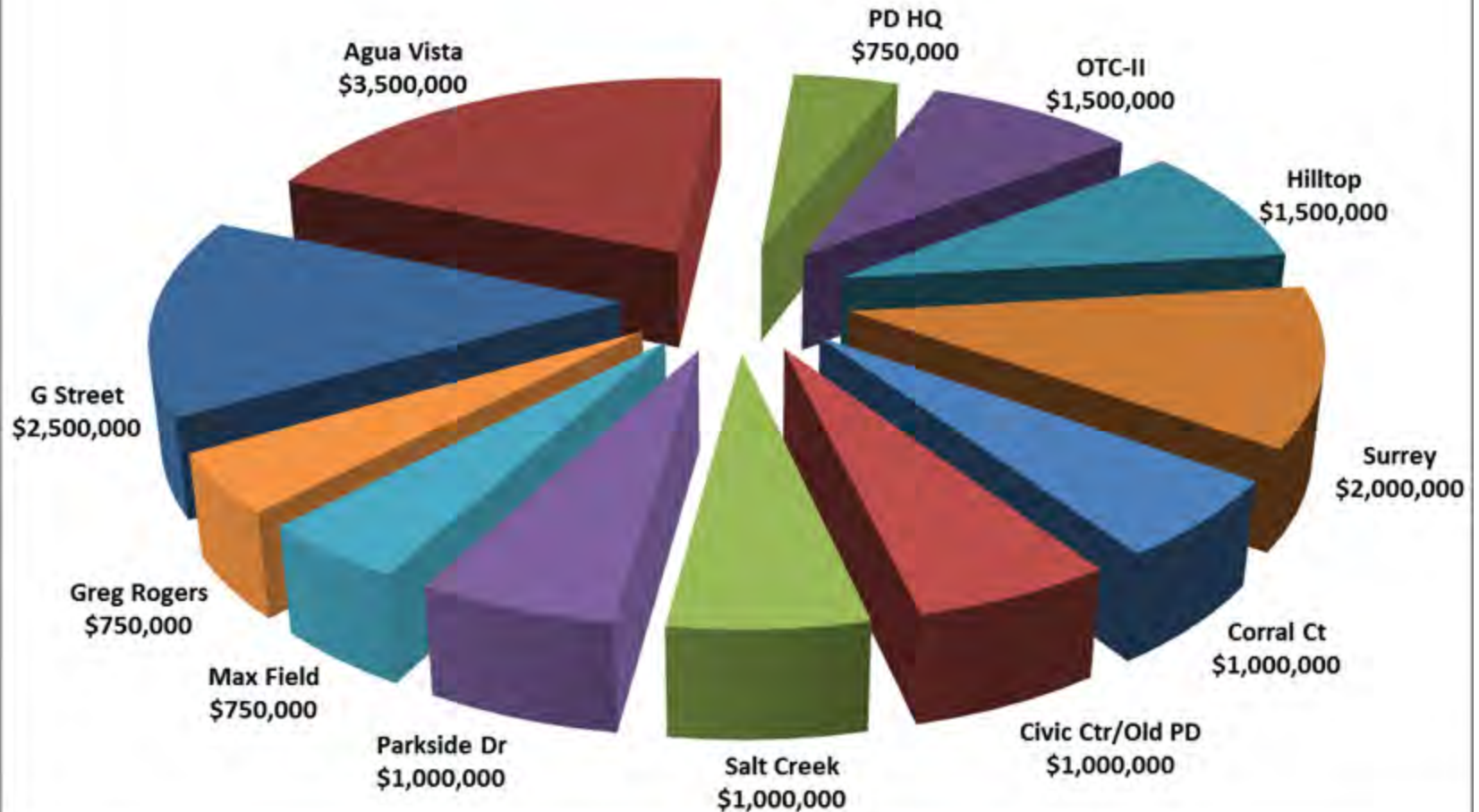
Estimated \$374M



Collection System Valuation: Pipes by Basin



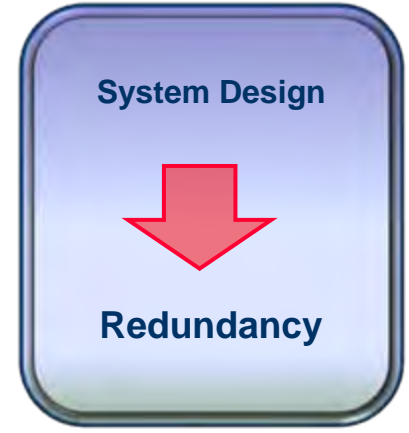
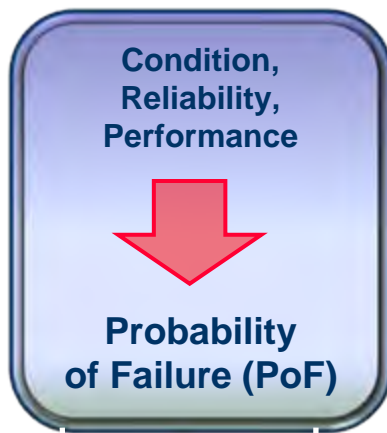
Collection System Valuation: Pump Station Valuation





What is my collection
system risk profile?

Which Assets are Critical?



$$\text{BRE} = \text{PoF} \times \text{CoF} \times \text{Redundancy}$$

Structural PoF
Operational PoF

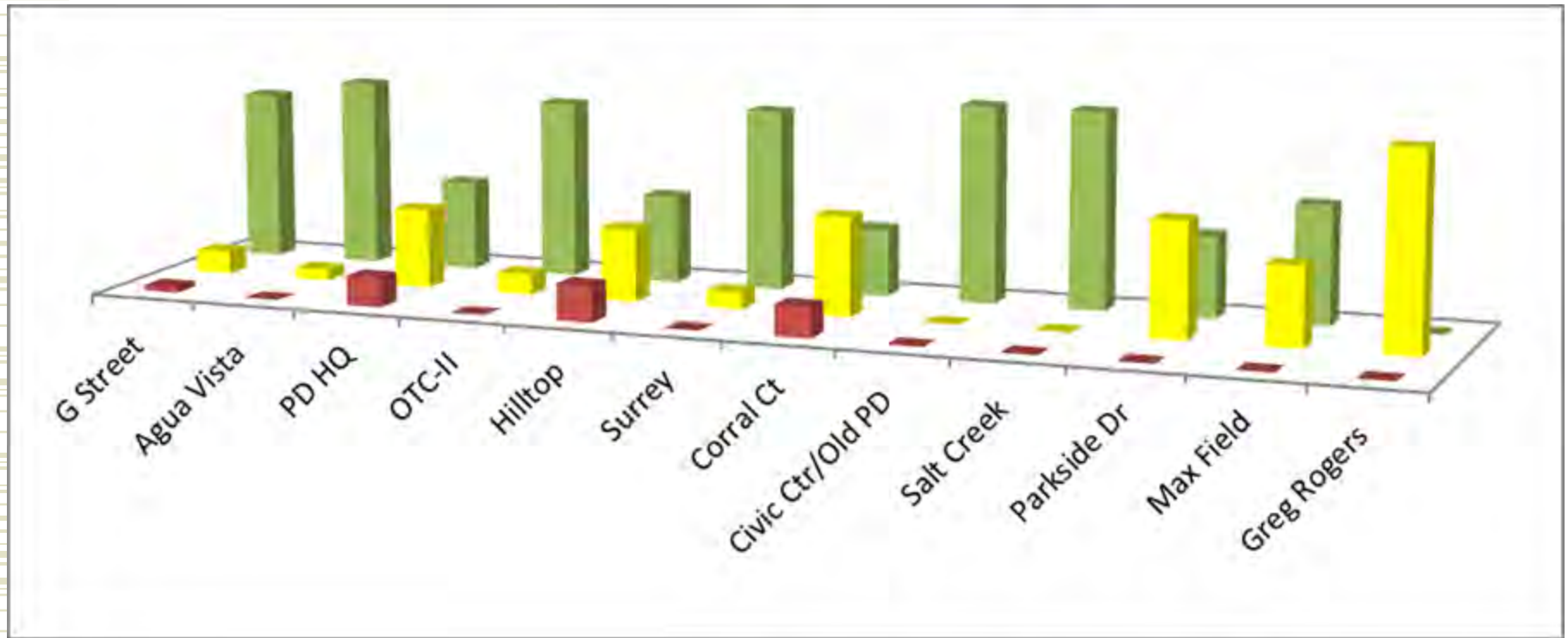
Triple Bottom Line
(Economic, Environment, Social)

Risk Profile: Pump Station (Corral Ct.)

Probability of Failure	5	3%	0%	41%	6%	13%
	4	0%	0%	0%	0%	3%
	3	3%	0%	0%	0%	3%
	2	3%	0%	0%	0%	0%
	1	0%	0%	6%	6%	13%
Total Number of Assets : 32		1	2	3	4	5
		Consequence of Failure				

22%
44%
34%

Risk Results (Pump Stations)

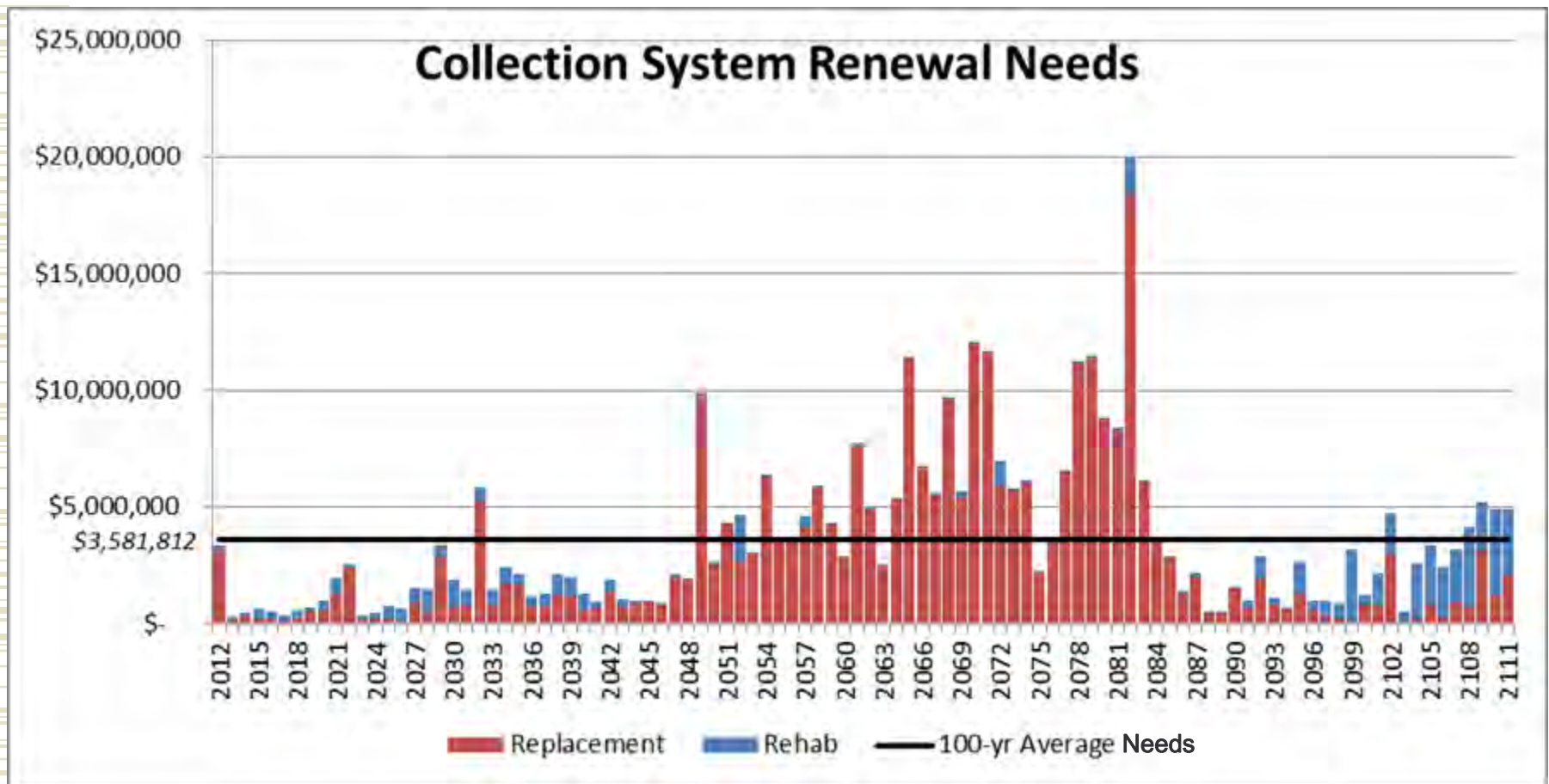




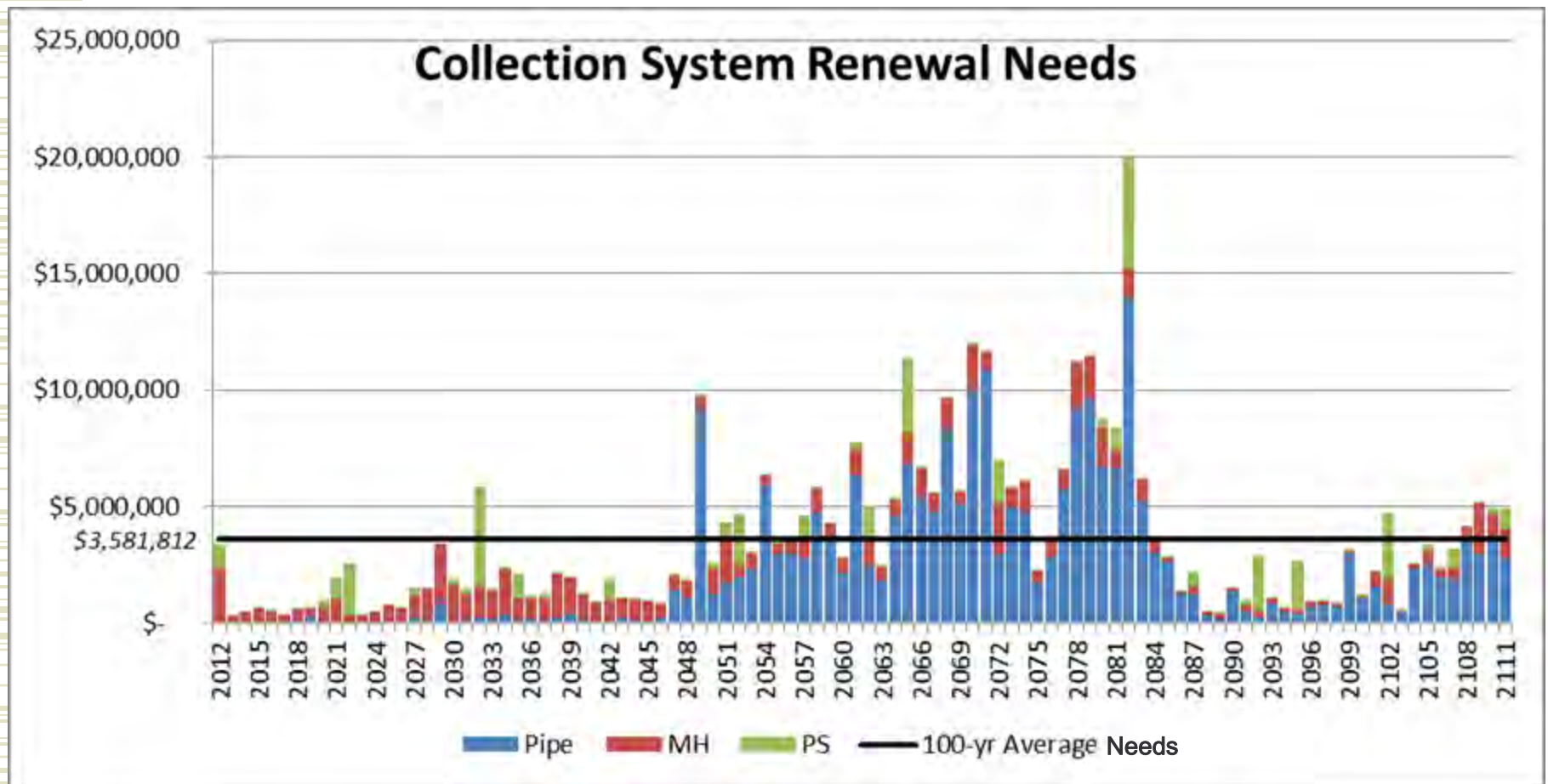
What is my collection system's long-range capital investment needs?



Projected Renewal Need



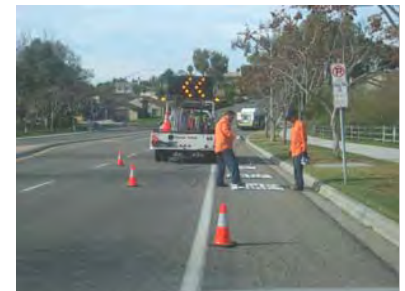
Projected Renewal Need



ROADWAY MANAGEMENT SYSTEM (RMS)

All City-owned assets in the Public Right-of-Way

- Pavement - Arterials, Collectors, Residential
- Sidewalks and Paths (Peds and Bicycles)
- Curb/Gutter and Cross Gutters
- Traffic Signals and Street Lighting
- Railings and Fences
- Signs, Traffic Striping and Pavement Markings
- Utility Coordination
- Structures (Bridges, Retaining Walls, etc.)
- Street Trees (part of UFMS)



CAPITAL PROJECT HIGHLIGHTS

Third Avenue Streetscape Project, Phase I



← Before

After →



CAPITAL PROJECT HIGHLIGHTS

East H Street Terra Nova Sidewalk Improvements



← Before



After →

CAPITAL PROJECT HIGHLIGHTS

Hilltop Sidewalk Improvements



← Before



After →

CAPITAL PROJECT HIGHLIGHTS

CASTLE PARK ASSESSMENT DISTRICT

200 Block - Naples Street Improvements



← Before



After →

CAPITAL PROJECT HIGHLIGHTS

CASTLE PARK ASSESSMENT DISTRICT

500 Block - Naples Street Improvements



← Before



After →

CAPITAL PROJECT HIGHLIGHTS

CASTLE PARK ASSESSMENT DISTRICT

1100 Block - Elm Street Improvements



← Before



After →

FEBRUARY CITY COUNCIL PAVEMENT WORKSHOP

Good and bad news for Chula Vista streets

[www.utsandiego.com/news/2013/feb/12/
pavement-streets-chula-vista](http://www.utsandiego.com/news/2013/feb/12/pavement-streets-chula-vista)

By **Katherine Poythress** 7:32 P.M. FEB. 12, 2013

PRINT

SAVE

COMMENTS



COMMENTS

CHULA VISTA — Chula Vista fell \$89 million short of keeping up with street maintenance over the last seven years, but the good news is the city won't need as much to keep up in the future.

Principal Engineer Kirk Ammerman led a City Council workshop last week on the status of the city's pavement maintenance program and its financial needs in coming years.

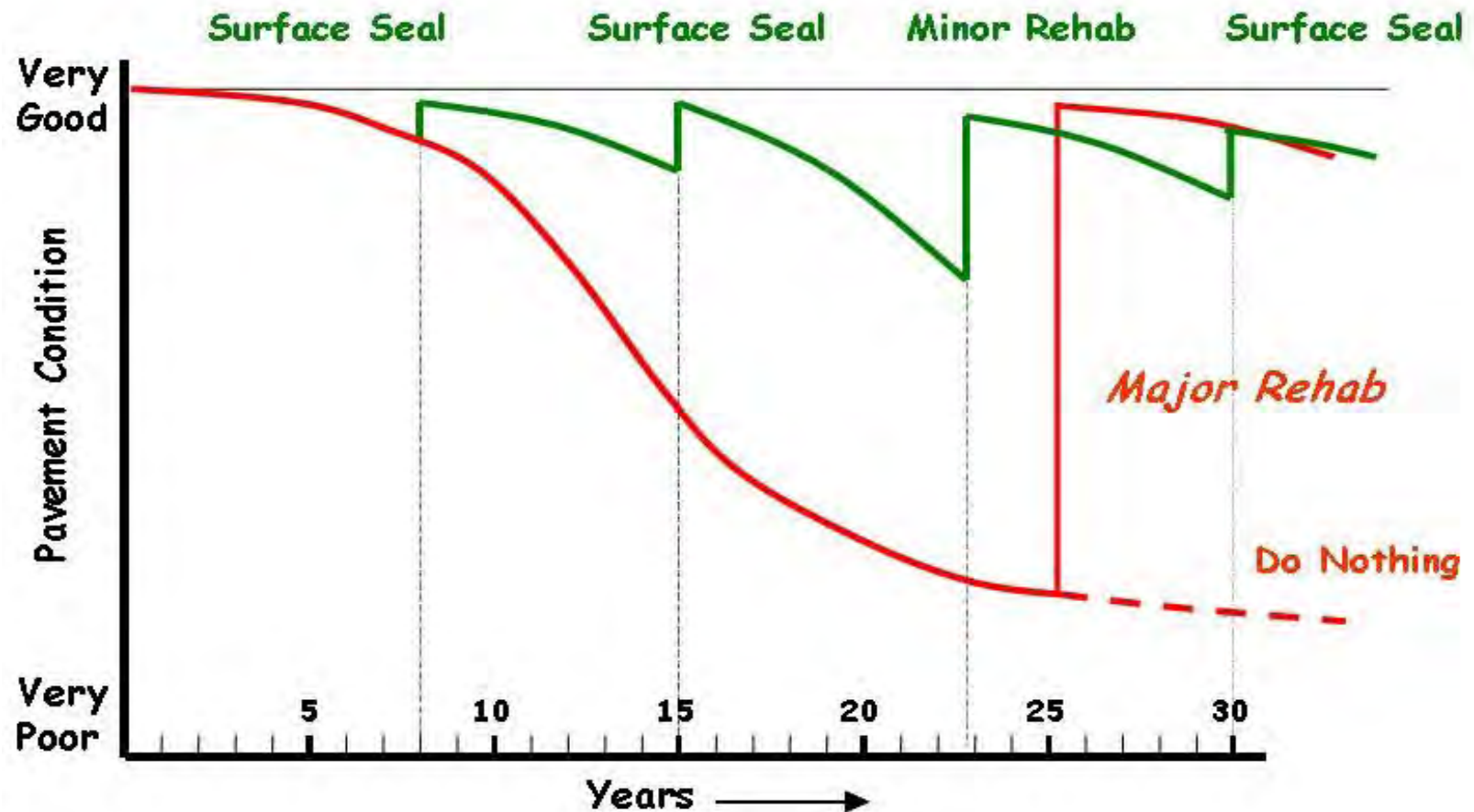
In 2006, consultant Margot Yapp of Nichols Consulting Engineers recommended the city invest at least \$19.2 million per year to maintain the streets at a level that she said would be both passable and prevent expensive rehabilitation later on.

PAVEMENT ASSETS

Category	Centerline Miles	Lane Miles	Area – Million Sq. Ft.	Current PCI*	Target PCI*
Arterials	58.3	287.4	22.0	82	80
Collectors	77.7	223.2	19.8	73	75
Residential	316.4	642.5	56.4	73	70
Alleys	10.6	22.0	1.3	51	
TOTAL NETWORK	463.0	1175.1	99.5	74	

*PCI – Pavement Condition Index

PAVEMENT PRESERVATION STRATEGIES



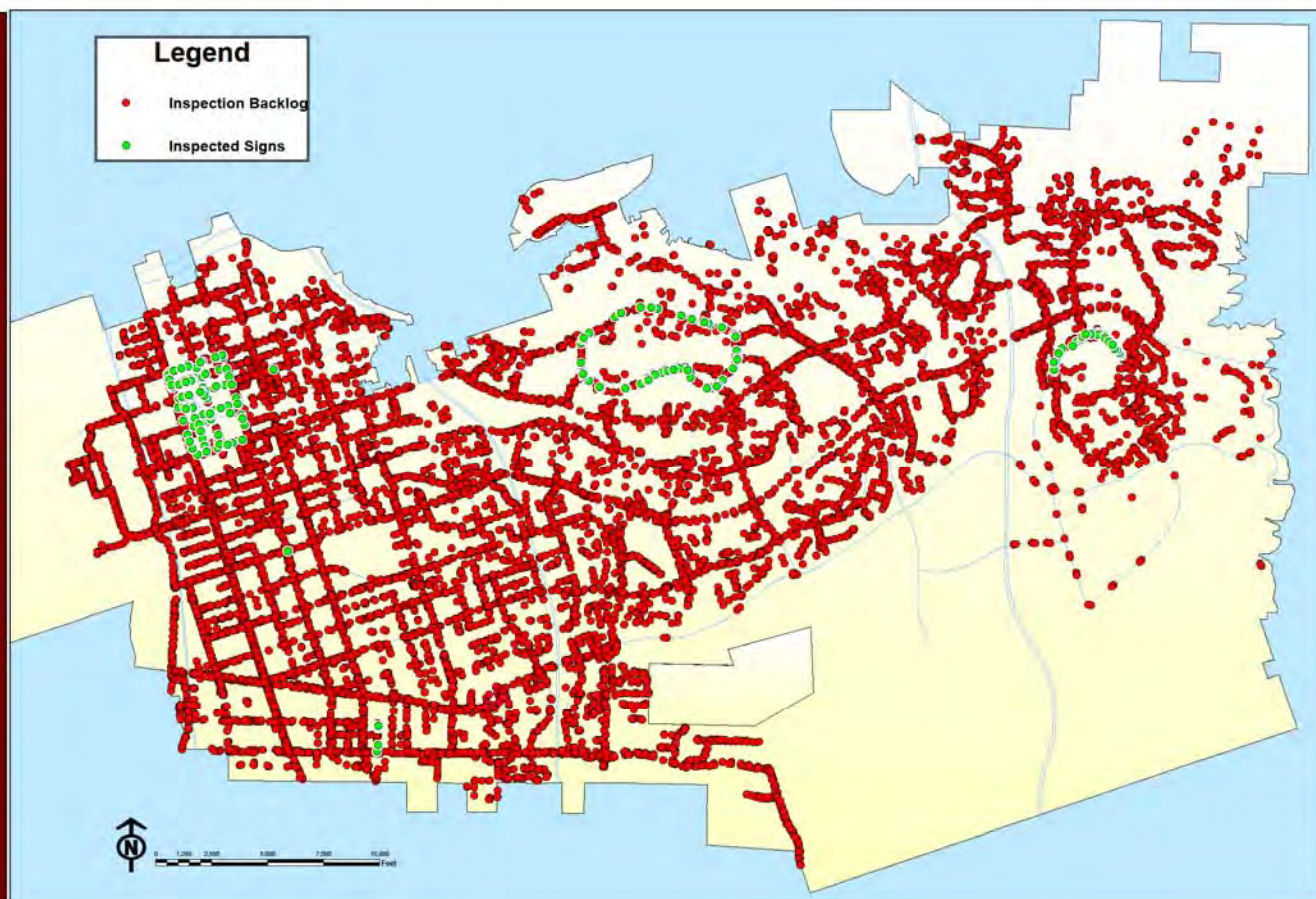
REGULATORY SIGNS REPLACEMENT BACKLOG

- City has 23,479 signs that regulate traffic flow
- 638 signs measured to determine if they meet mandated reflectivity standards
 - Sampled areas in each of the four quadrants of the City
- 247 signs fell below the mandated reflectivity level – a 39% failure rate
 - estimate of 9,157 non compliant signs
- Striping & Signing has a backlog of more than 100 sign replacements for which we lack the resources to correct



SIGN REFLECTIVITY INSPECTION BACKLOG

Reflectivity Testing - Progress and Backlog



RMS ASSET MANAGEMENT FUNDING AND CRITICAL NEEDS

Inventory and Condition Assessment **\$250,000**

Critical Replacement and Repair Needs

- Faulted Sidewalks \$250,000
- Gutter Replacements/Repairs \$250,000
- Parking Lots Seals/Repairs \$200,000
- Traffic Striping & Signing \$250,000

Annual Service Level Deficiencies

- Graffiti Eradication - hourly staff \$60,000
- Increase to Street Sweeping Contract
(currently \$150,000/year) \$100,000
- Litter and Weed Abatement 2-Person Crew \$145,000

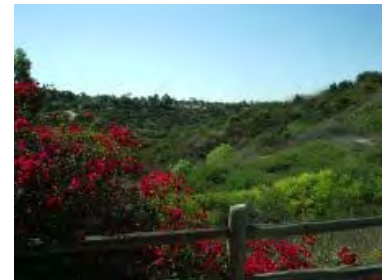
Estimated Deferred Maintenance - \$467 Million (Replacement of Sidewalk, Curb/Gutter, Pavement, Bikeway, Pedestrian, Traffic Signals, Street Lighting, Bridges, etc.)

OPEN SPACE MANAGEMENT SYSTEM (OSMS)

Asset Management Inventory and Condition Assessment in Process

- Trees, Shrubs, and Ground Cover
- Irrigation Systems
- Trails, Pedestrian Bridges, Lighting
- Environmentally Sensitive Areas (ESA's)
- Gates, Fences, Railings and Signs
- Misc. Hardscape (Ditches, Channels, Walls, and Monuments)
- Public and Private Commercial Landscape Inspection

Long Term Maintenance Plans being prepared



URBAN FORESTRY MANAGEMENT SYSTEM (UFMS)

- Trim City Street and Park Trees
- Provide Storm Response
- Remove Dead and Unsafe Trees
- Provide Sign and Line of Sight Clearance
- Stump Grind and Root Prune
- Plant, Train and Water Young Trees

Urban Forestry Risk Profile

RED	Roadway Management System	RMS
RED	Park Management System	PMS
GREEN	Open Space Management System	OSMS



UFMS ASSET MANAGEMENT FUNDING AND CRITICAL NEEDS

***Asset Management Inventory and Condition
Assessment (not including Open Space)*** ***\$100,000***

Critical Need

- Tree Trimming (2012 deficit of 4,695 trees) \$300,000

Annual Service Level Deficiency

- Increase Tree Trimming contract (based on a 5-year cycle annual cost is \$450,000) \$340,000

Estimated Deferred Maintenance - \$915,000 (backlog of 13,418 trees to be trimmed based on 5-year trim cycle)

FLEET MANAGEMENT SYSTEM (FMS)

- Police Dept – 177 vehicles
- Fire Dept – 47 vehicles
- Other Depts. – 351 vehicles



PREVENTATIVE VEHICLE MAINTENANCE

	PM'S COMPLETED	PM'S COMPLETED ON SCHEDULE (%) ⁽¹⁾
2012-13 YTD ⁽²⁾	479	51%
2011-12	765	57%
2010-11	712	42%
2009-10	738	59%
2008-09	942	52%
(1) Goal is 70% (85% prior to FY07-08)		
(2) Thru February 2013		

VEHICLE REPLACEMENT

FISCAL YEAR	NON-SAFETY VEHICLES ^{(1) (2)}	PATROL CARS ⁽²⁾
2012-13	7 of 8	7 of 7
2011-12	0 of 24 ⁽³⁾	0 of 6 ⁽⁴⁾
2010-11	0 of 19 ⁽³⁾	10 of 10 ⁽⁴⁾
2009-10	0 of 12 ⁽³⁾	14 of 19 ⁽⁴⁾
2008-09	0 of 10 ⁽³⁾	10 of 19 ⁽⁴⁾
(1) Excludes Sewer funded vehicles.		
(2) No. vehicles scheduled to be replaced.		
(3) Reflects extended replacement intervals.		
(4) Replaced at 100,000 miles vs. 80,000 miles.		

FMS CRITICAL VEHICLE REPLACEMENT NEEDS

Department	# of Vehicles	Replacement Amount
Animal Care Services	1	\$65,000
Community Patrol	14	476,000
Traffic Enforcement	1	34,000
Police Administration	1	28,000
Fire Administration	2	120,000
Fire Suppression	2	120,000
Public Works	9	747,000
Outfitting Police Patrol Cars		150,000
Emergency Vehicle Purchases		70,000
TOTAL		\$1,810,000

FMS ASSET MANAGEMENT FUNDING

Asset Management Inventory and Condition Assessment

- Vehicle Inventory and Maintenance Records Managed in-House

Critical Need

- Vehicle Replacement \$1.8M

Annual Service Level Deficiency

- Vehicle Maintenance – Two Additional Mechanics \$150,000

Estimated Deferred Maintenance of Vehicles – over \$8M

DRAINAGE MANAGEMENT SYSTEM (DMS)

- **Approximately 1.5 million feet of pipe**
(CMP, HDPE, PVC, RCB, RCP, VC) size ranging from 4" to 180"
- **Approximately 1.6 million feet of channel**
(Brow Ditch, Concrete Lined Rectangular and Trapezoidal, Natural)
- **Approximately 13,000 Public Access Points**
Clean Outs, Head Walls, Inlets, Junction Structures, NPDES Structures, Outlets)
- **Approximately 150 Other Structures**
(Desilting Basins, Detention Basins, Gabion Structures, Water Quality Basins)



CAPITAL PROJECT HIGHLIGHT

Bonita Canyon Emergency Construction Repairs



← Before After →
During
↓



DMS PRIORITY REPAIRS

Completed

- Storm channel repair
 - *Bonita Canyon*
- Emergency Corrugated Metal Pipe (CMP) repair projects
 - *4th and E Street*
 - *F St (east of Woodlawn)*

Ongoing Monitoring due to High Risk of Failure

- Telegraph Canyon Channel erosion between Paseo Ladera and Medical Center Dr
- Long Canyon
- Poggi Canyon at Rancho Dr
- Broadway south of Main to Otay River



DMS ASSET MANAGEMENT FUNDING AND CRITICAL NEEDS

***Asset Management Condition Assessment
(Update to 2004/05 CMP Condition Study) \$450,000***

Critical Needs

- Telegraph Canyon Channel Erosion (between Paseo Ladera and Medical Center Dr) Phase 1 \$1M
- Storm Channel/Detention Basin Maint. Plans \$225,000
- Flood Control & Invasive Plant/Debris Removal \$250,000
- Annual CMP Failures \$600,000

Annual Service Level Deficiency

- Storm Channel Cleaning/Inspections \$60,000

Estimated Deferred Maintenance (non CFD areas) - \$80 Million (Replacement of Drainage Facilities, CMP, Canyon/Channel Erosion, etc.)



BUILDING MANAGEMENT SYSTEM (BMS)

The City owns over one million square feet of public buildings

- Animal Care Facility
- Civic Center
- Fire Stations
- Libraries
- Living Coast Discovery Center
- Police Headquarters
- Public Works Operations Center
- Recreation Centers
- Visitor Information Center (E Street)
- Other



BUILDING MAINTENANCE AND REPAIR CHALLENGES

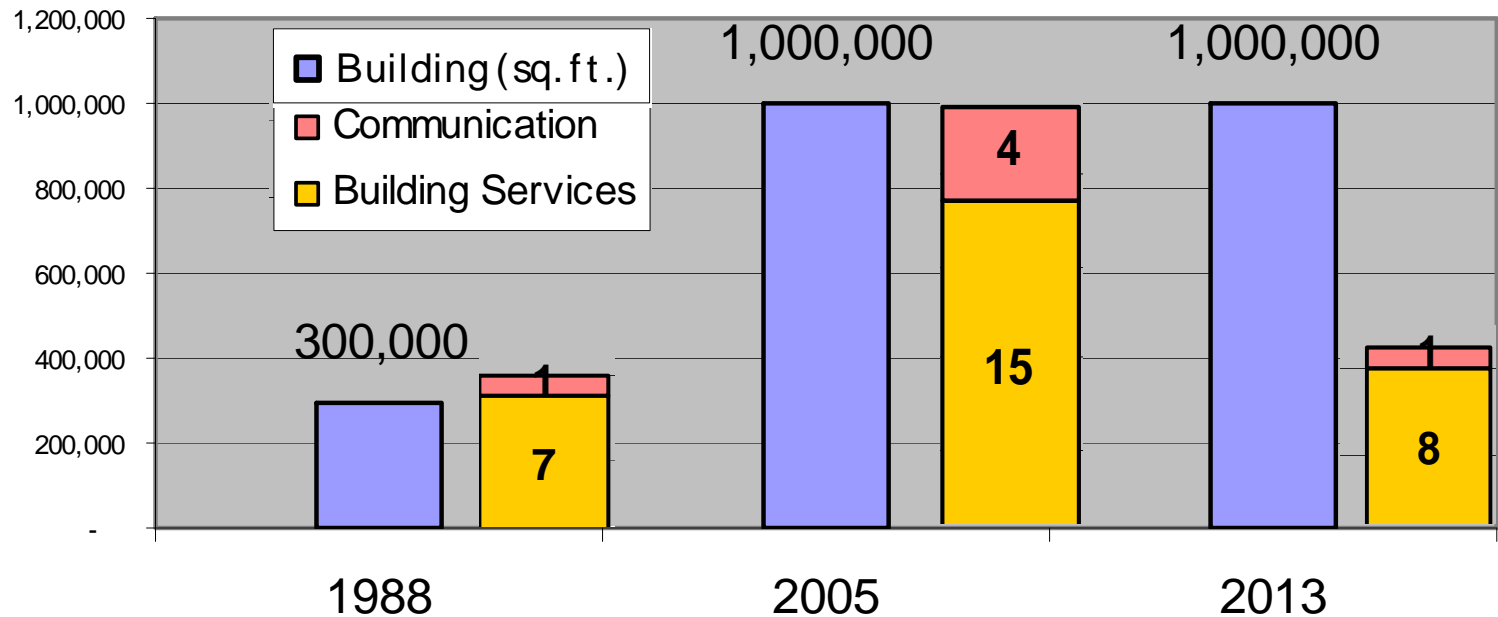


BUILDING MAINTENANCE AND REPAIR CHALLENGES



CONSTRUCTION & REPAIR STAFFING REDUCTIONS

City Owned Buildings (sq. ft.) and Staffing Levels



ENERGY MANAGEMENT UPDATE

Completed

- Third-party energy audits at over 30 municipal sites
- HVAC System upgrades at Norman Park Center
- LED messaging signs installed at Library Energy Lounges
- Tariff switches to more favorable rates (21 sites - \$95k in annual savings)
- Renegotiated direct access contract (4 sites - \$50k in annual savings)
- Intervention in SDG&E Rate Case at CPUC

In Progress

- Over 3,700 street lights being converted to LED (arterial roads)
- Adaptive control study with SDG&E for street lights
- Additional solar installations at up to 5 facilities
- EV charging stations at 5 municipal sites (no cost)
- “Revolving Conservation Fund” to support energy & water upgrades

Estimated annual utility savings of over \$455,000



BMS ASSET MANAGEMENT FUNDING AND CRITICAL NEEDS

Inventory and Condition Assessment **\$150,000**

Critical Replacement and Repair Needs

- Inspection of Fire Risers **\$110,000**
- Repairs at Recreation Facilities and Pools **\$150,000**
- HVAC Replacement/Repairs (various facilities) **\$190,000**
- Roof Replacement/Repairs (various facilities) **\$110,000**
- Emergency Generator **\$65,000**

Annual Service Level Deficiency

- Facilities Structural Repair – C&R Position **\$90,000**
- Citywide Minor Capital Repair Budget **\$200,000**

**Estimated Deferred Maintenance of Buildings & Facilities –
\$60 Million (Replacement of Roofing, HVAC, Plumbing,
Electrical Systems, etc.)**

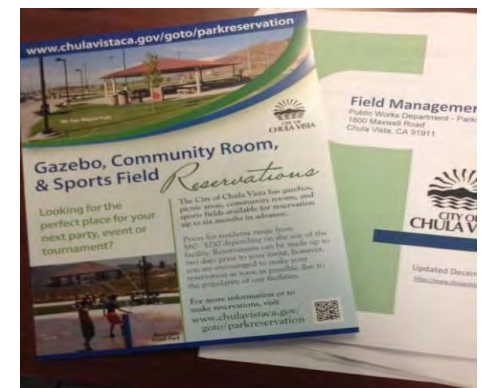
PARKS MANAGEMENT SYSTEM (PMS)

- 533 Acres
- Over 75 separate Play Structures
- 88 Athletic Fields and Trails
- 64 Shelters 90 total Picnic areas, and BBQ's
- Benches, Monuments and Kiosks, Water Feature
- Over 62 Courts, 3 Dog Parks and 7 Skate Parks
- 33 Restrooms, Parking Lots and Gates
- Fences and Railings and Drinking Fountains
- Irrigation Systems, 4 Weather Stations
- Trees, Shrubs and Lighting
- Contracts, Pocket Parks, Medians and the Golf Course
- Park Ranger Program and Park Reservations



How Do We Manage our Assets Now? Efficiencies? At What Cost?

- Contract Management: Paid or Trade ?
- Ranger Lite, Volunteers
- Mow Crew
- Management Reports
- Turf Conversions, Plant Removal
- Decreased Service Level



PMS ASSET MANAGEMENT FUNDING AND CRITICAL NEEDS

Inventory and Condition Assessment

\$150,000

Critical Needs

- Playground Surfacing (various parks) \$50,000
- Playground Equipment Repair (various parks) \$300,000
- Court Resurfacing (various parks) \$100,000
- Tot Lot Installation (Valle Lindo and Los Ninos) \$80,000
- Sidewalk Replacement (Tiffany and Discovery) \$175,000

Annual Service Level Deficiencies

- Enforcement/Supervision - Full Time Park Ranger Supervisor \$105,000
- Shrub and Weed Maintenance – Hourly Staff \$30,000
- Increased Water Use/Water Rate Increase \$400,000

**Estimated Deferred Maintenance – \$20 Million (Replacement/
Renovation of Fields, Playgrounds, Restrooms, Shelters, etc.)**

GENERAL GOVERNMENT MANAGEMENT SYSTEM (GGMS)

- Communications Network
- Parking Meters
- Real Property
- Survey Control Network
- Utility Undergrounding

**Estimated Deferred Maintenance of General Government
Assets – under study**

REAL PROPERTY

Real Estate Utilization

Goal:

To identify ways to generate revenue from the City's existing facilities which can be used to:

- Fund the maintenance and repair of the facility first, **and**
- Underwrite the cost of day to day operations and programming that benefits the community – **or** –
- Secure services that the City used to provide but are no longer funded

Results:

- Rented the Ken Lee Building to South Bay Community Services

SUMMARY OF GENERAL FUND FUNDING NEEDS

System	AMP Assessment	Critical Needs	Service Level Deficiencies	Maintenance Backlog
OSMS				
WMS				
GGMS				
PMS	\$150K	\$705K	\$535K	\$20M
BMS	\$150K	\$625M	\$290K	\$60M
DMS	\$450K	\$2.1M	\$60K	\$80M
FMS	\$0	\$1.8M	\$150K	\$8M
RMS	\$250K	\$950K	305K	\$467M
UFMS	\$100K	\$300K	\$340K	\$.9M
Total	\$1.1M	\$6.5M	\$1.7M	\$639M



FUNDING STRATEGIES

- *Assessment Districts*
- *Bond Measure*
- *Fees*
- *Gas Excise Tax Increase*
- *Local Sales Tax Increase*
- *Other (i.e. State Revolving Loans, Infrastructure Financing District)*



NEXT STEPS...

- Complete Asset Management Condition Assessments for Fleet, Drainage, Urban Forestry, Parks, Buildings, General Government, Wastewater (manholes) and Roadway (other than pavement)
- Develop funding mechanism involving a Bond Measure or other financing initiative
- CIP and Budget Workshop in April/May
- Final CIP and Budget adoption in June
- Sewer Rate Study and Master Plan presentation in Summer

Tools Available Online

Quick Links

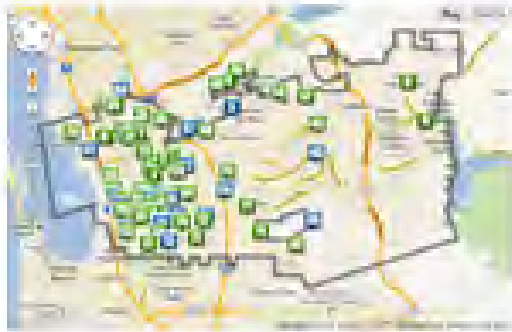
www.chulavistaca.gov/goto/Engineering

- ▶ Bikeway Master Plan Update 2011
- ▶ Engineering Fees
- ▶ Forms
- ▶ FY 2012-2013 Proposed CIP Detail Sheets
- ▶ GIS Data
- ▶ Grading Ordinance No. 1797
- ▶ Interactive CIP Map | **NEW!**
- ▶ Laserfiche Documents
- ▶ Major Intersection Safety
- ▶ Pedestrian & Bicycle Safety
- ▶ Pedestrian Master Plan
- ▶ Permits
- ▶ Report an Issue
- ▶ Road Closures
- ▶ Slow Down, Chula Vista!
- ▶ Standard Drawings
- ▶ Stop on Red
- ▶ Stormwater Manual
- ▶ Subdivision Manual
- ▶ Traffic Operations
- ▶ Traffic Safety
- ▶ Vehicular Volume Counts
- ▶ Walk San Diego/Chula Vista Report
- ▶ Wastewater Master Plan
- ▶ Wastewater Reclamation Facility Feasibility Study
- ▶ Wireless Facilities Map

Tools Available Online, cont.

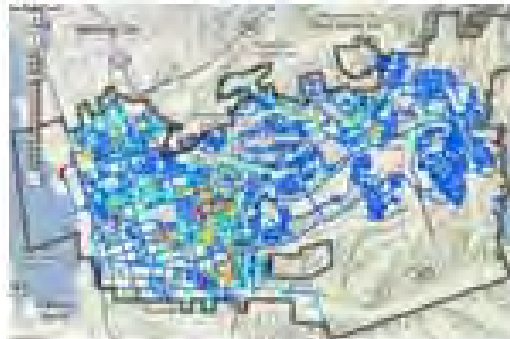
Online Interactive Maps

www.chulavistaca.gov/goto/Engineering



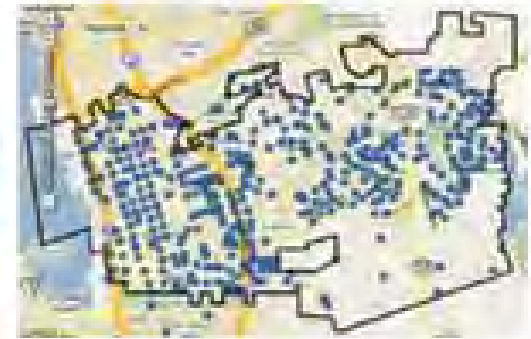
Capital Improvement Projects

View active Capital Improvement Projects such as Drainage, Pavement Rehabilitation, Transportation and more.



Pavement Conditions/ Traffic Volumes

Search by address to find out the Pavement Condition Index rating of Chula Vista streets, as well as Daily Traffic Volumes.

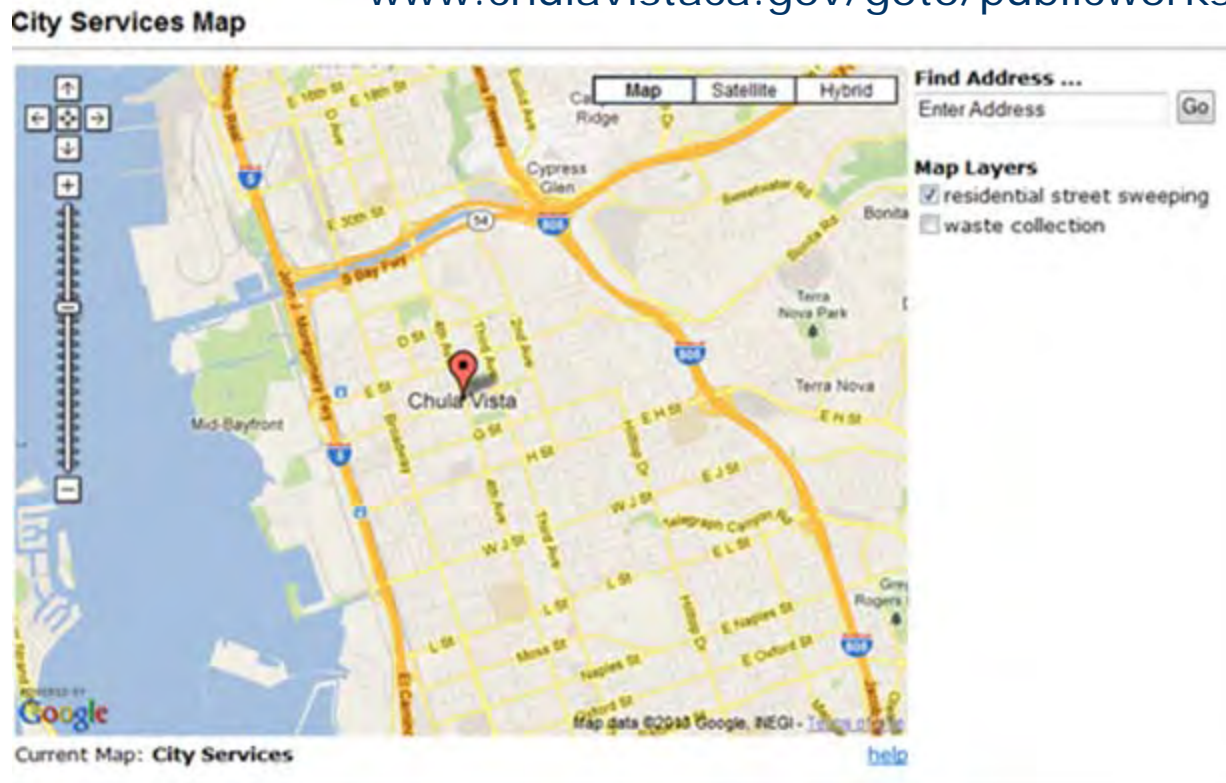


Survey Control Network

Search by address to view Benchmarks, Corner Records and Survey Control Points.

Tools Available Online, cont.

www.chulavistaca.gov/goto/publicworks



Interactive Street Sweeping and Waste Collection Schedule Map

Tools Available Online, cont.

ONLINE SERVICES

www.chulavistaca.gov/goto/PublicWorks

Service Requests

[click here]

Report any infrastructure related problem.



Make an online park reservation for a gazebo or picnic area.

Tools Available Online, cont.

Open Space

www.chulavistaca.gov/goto/OpenSpace



Open Space Hotline
(619) 397-6016

General Dispatch
(619) 397-6000

- ▶ [Open Space Districts & Maintenance Community Facilities Districts](#)
- ▶ [Reporting Open Space Concerns](#)
- ▶ [Open Space Fiscal Year 2012-2013 Budget](#)

The Open Space Section is responsible for the administration and management of ecological preserves, as well as erosion control and scenic landscaping, in the City.

SeeClickFix

www.seeclickfix.com

